BiPAC 7402VL/VGL/VGP

VoIP/(802.11g) ADSL2+ Router

Quick Start Guide

For more detailed instructions on configuring and using the Billion VoIP/(802.11g) ADSL2+ Router, please refer to the on-line manual.

Package Contents

- VoIP/(802.11g) ADSL2+ Router
- CD-ROM containing the online manual
- RJ-11 ADSL/telephone Cable
- Ethernet (CAT-5 LAN) Cable
- Console (PS2-RS232) Cable
- AC-DC power adapter (12VDC, 1.2A)
- This Quick Start Guide

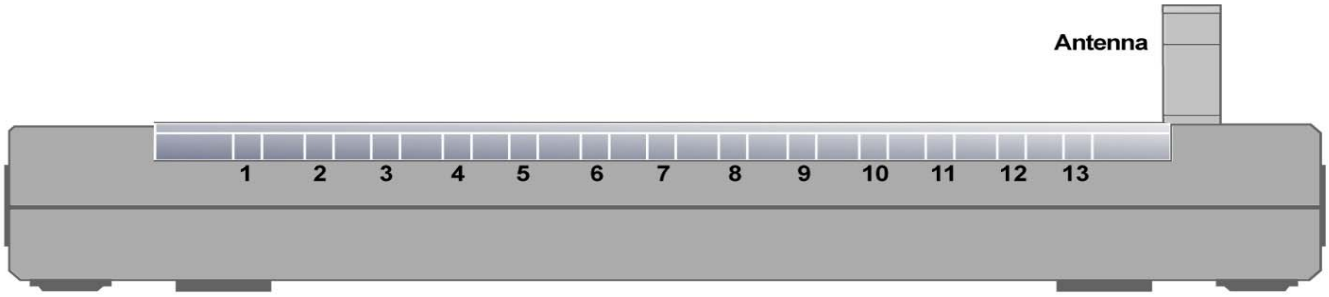
Warning

- ✓ **Do not use this router in high humidity or high temperatures.**
- ✓ **Do not use the same power source for this router as other equipment.**
- ✓ **Do not open or repair the case yourself. If this router is too hot, turn off the power immediately and have it repaired at a qualified service center.**
- ✓ **Avoid using this product and all accessories outdoors.**

Attention

- ✓ **Place this router on a stable surface.**
- ✓ **Only use the power adapter that comes with the package. Using a different voltage rating power adaptor may damage this router.**

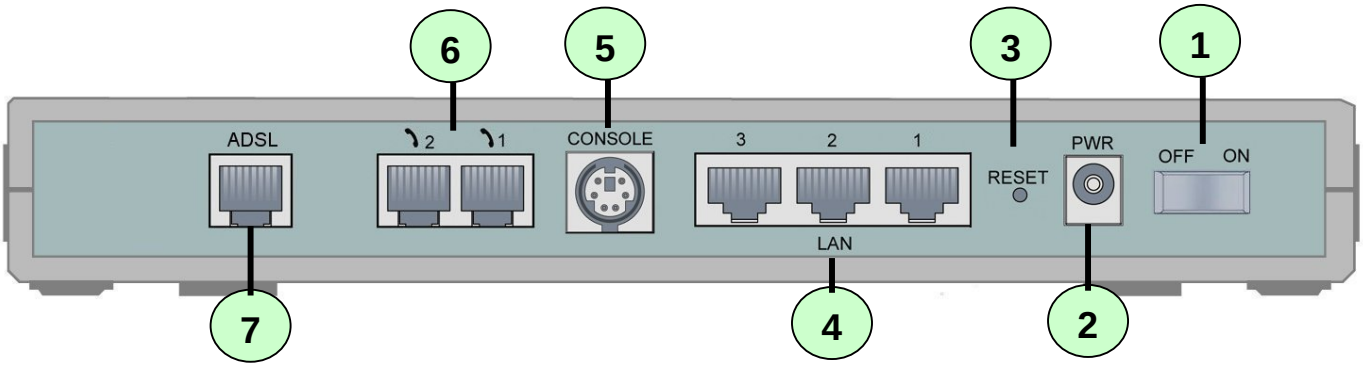
The Front LEDs



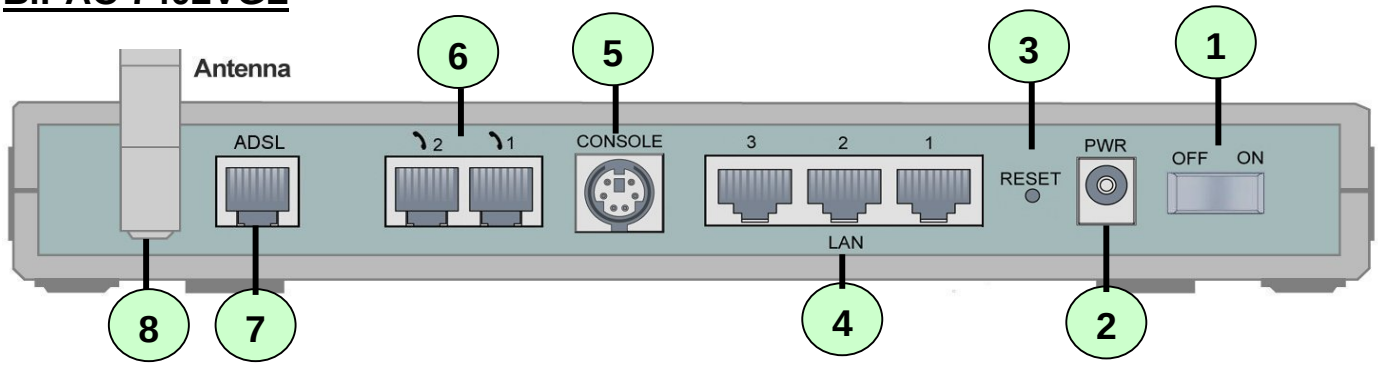
LED		Meaning
1	**PWR**	Lit when power is ON.
2	**SYS**	Lit when the system is ready.
3 - 5	**LAN Port** **1X — 3X** **(RJ-45 connector)**	Lit when connected to an Ethernet device. Green for 100Mbps; Orange for 10Mbps. Blinking when data is Transmitted / Received.
7	**WLAN** **(BiPAC 7402VGL/VGP only)**	Lit green when the wireless connection is established. Flashes when sending/receiving data.
8 – 9	**Phone** **1X — 2X** **(RJ-11 connector)**	Lit green when the phone is off-hook.
10	**LINE** **(BiPAC 7402VGP only)**	Lit when the inbound and outbound calls transmitted through PSTN.
11	**VoIP**	Lit when SIP registration is OK.
12	**PPP / MAIL**	Lit steady when there is a PPPoA / PPPoE connection. Lit and flashed periodically when there is email in the Inbox.
13	**ADSL**	Lit when successfully connected to an ADSL DSLAM (“linesync”).

The Rear Ports

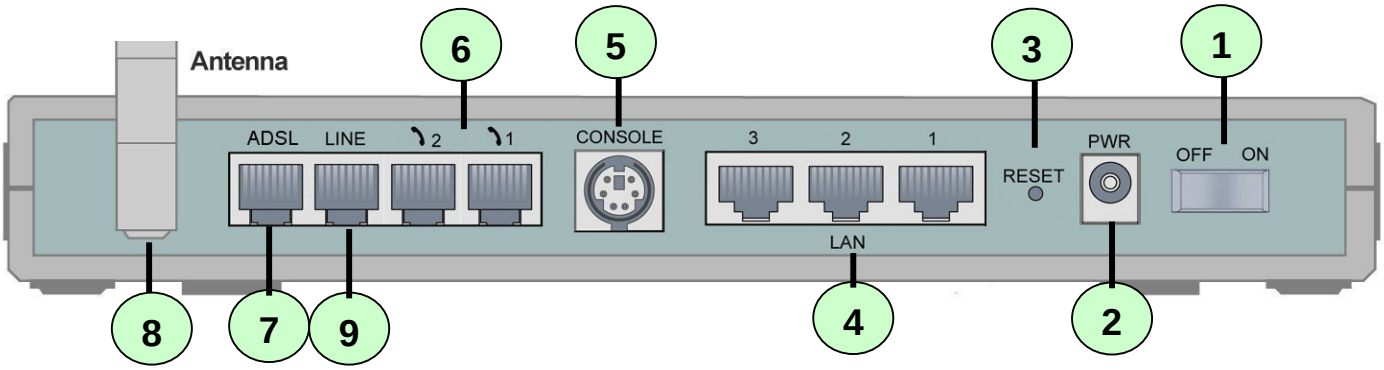
BiPAC 7402VL



BiPAC 7402VGL



BiPAC 7402VGP

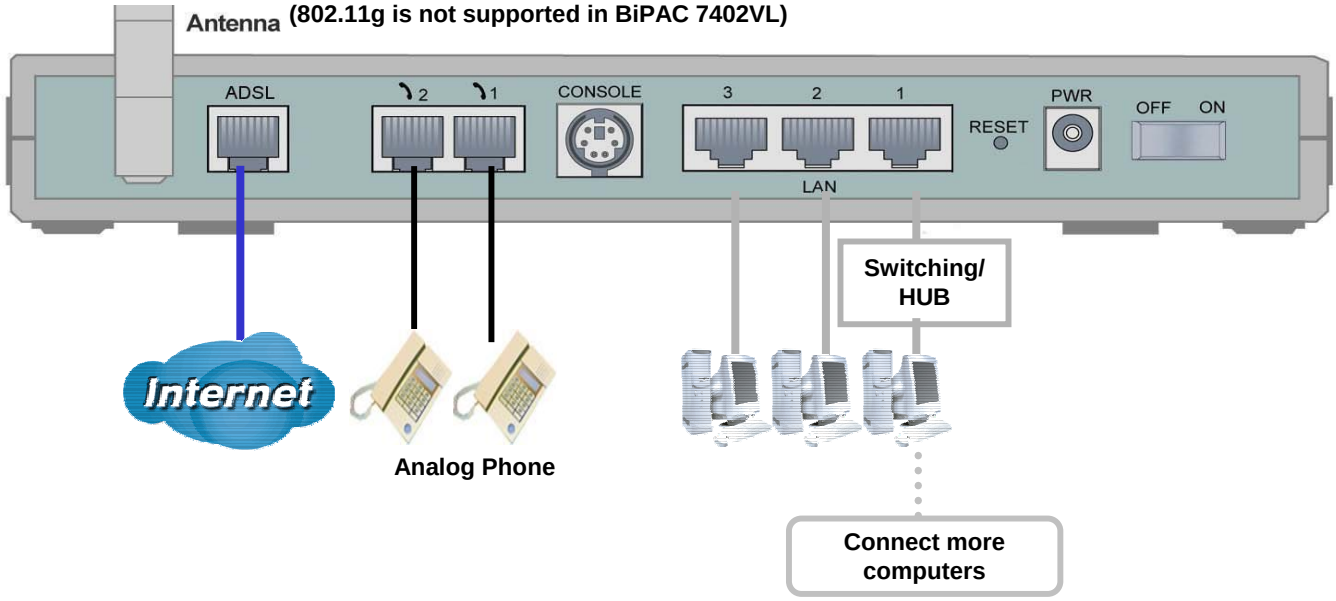


Port		Meaning
1	**Power Switch**	Power ON/OFF switch
2	**PWR**	Connect the supplied power adapter to this jack.
3	**RESET**	After the device is powered on, press it to reset the device or restore to factory default settings. 0-3 seconds: reset the device 6 seconds above: restore to factory default settings (this is used when you can not login to the router, e.g. forgot the password)
4	**LAN** **1X — 3X** **(RJ-45 connector)**	Connect a UTP Ethernet cable (Cat-5 or Cat-5e) to one of the four LAN ports when connecting to a PC or an office/home network of 10Mbps or 100Mbps.
5	**CONSOLE**	Connect a PS2/RS-232 cable to this port when connecting to a PC's RS-232 port (9-pin serial port).
6	**Phone** **1X — 2X** **(RJ-11 connector)**	Connect RJ-11 cable to this port when connecting to an analog phone set.
7	**ADSL**	Connect the supplied RJ-11 ("telephone") cable to this port when connecting to the ADSL/telephone network.
8	**Antenna** **(BiPAC 7402VGL/VGP only)**	Connect the detachable antenna to this port.
9	**LINE** **(BiPAC 7402VGP only)**	Connect RJ-11 cable to this port when connecting to the telephone wall jack.

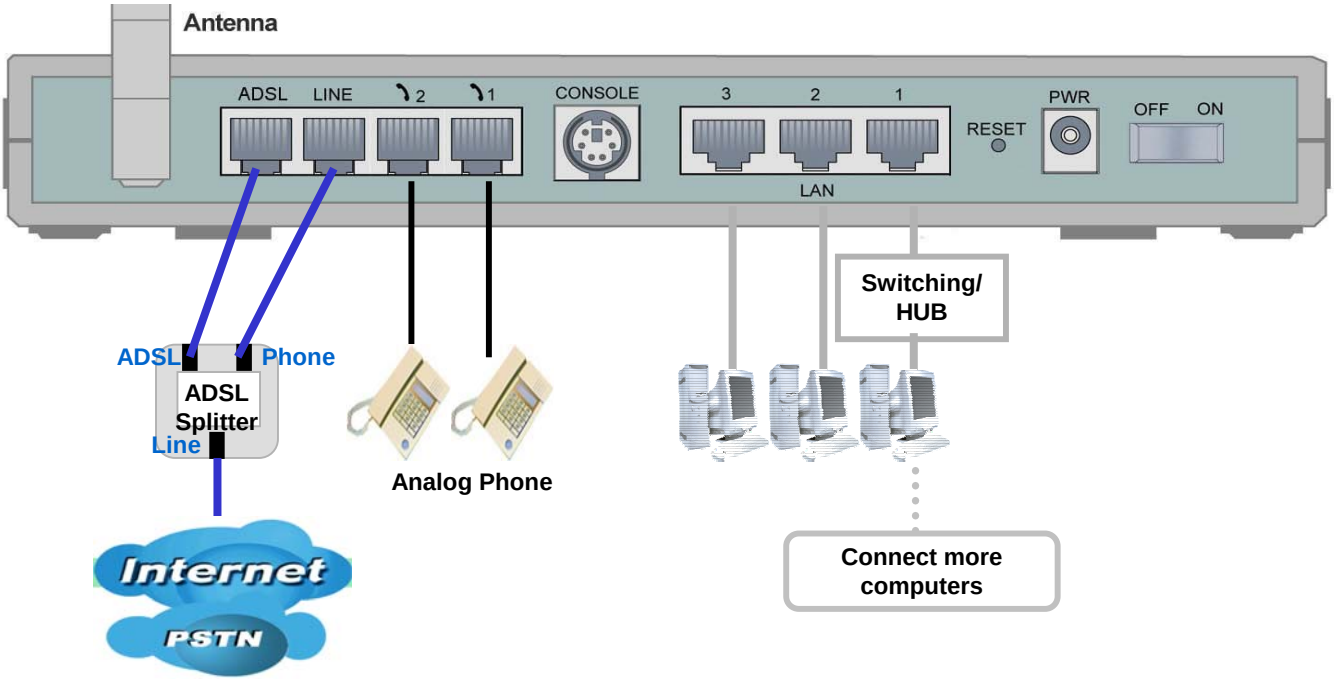
Connecting Your ADSL Router

1. Connect this router to a **LAN** (Local Area Network) and the ADSL/telephone (**ADSL**) network.
2. Power on the device.
3. Make sure the **PWR** and **SYS** LEDs are lit steadily and that the **LAN** LED is lit.
4. Connect an RJ11 cable to VoIP port when connecting to an analog phone set.
5. Connect RJ-11 cable to LINE Port when connecting to the telephone wall jack **(BiPAC 7402VGP only)**.

BiPAC 7402VL/VGL



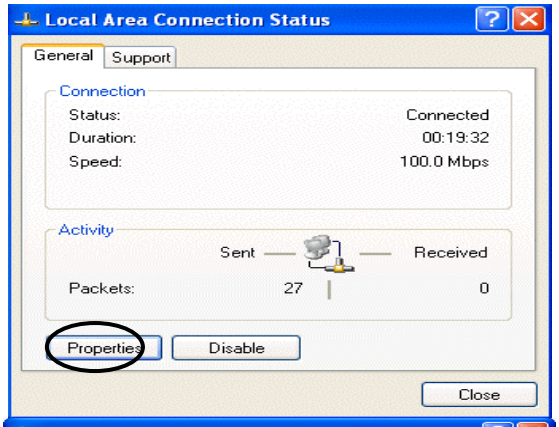
BiPAC 7402VGP



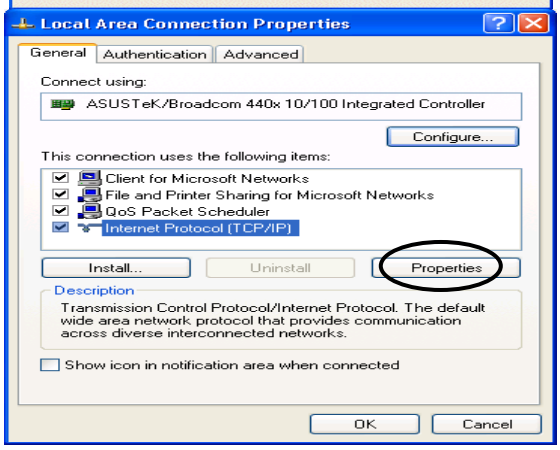
Configuring PC in Windows XP

1. Go to **Start / Control Panel (in Classic View)**. In the Control Panel, double-click on **Network Connections**
2. Double-click **Local Area Connection**.

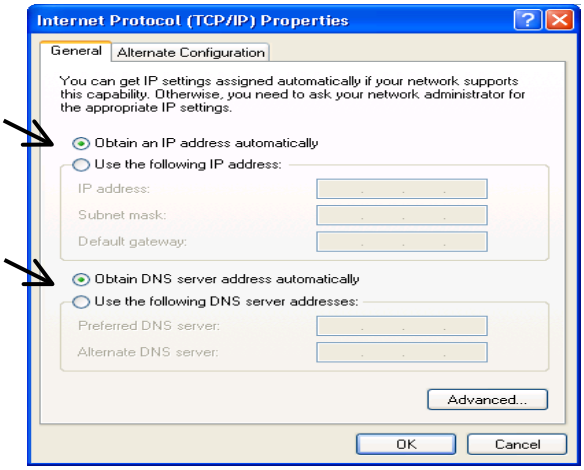
3. In the **Local Area Connection Status** window, click **Properties**.



4. Select **Internet Protocol (TCP/IP)** and click **Properties**.

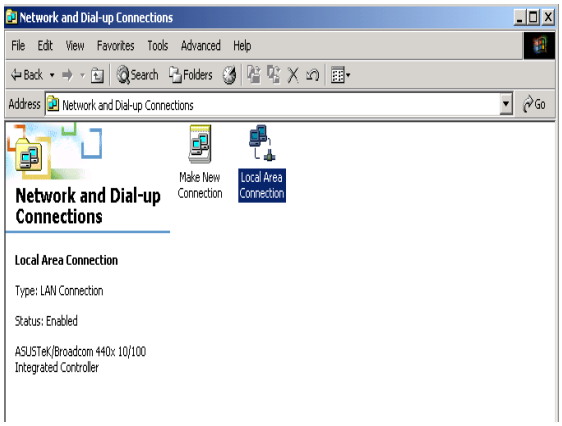

Local Area Connection Properties
General Authentication Advanced
Connect using:
ASUSTeK/Broadcom 440x 10/100 Integrated Controller
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install... Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
OK Cancel

5. Select the **Obtain an IP address automatically** and the **Obtain DNS server address automatically** radio buttons.
6. Click **OK** to finish the configuration.

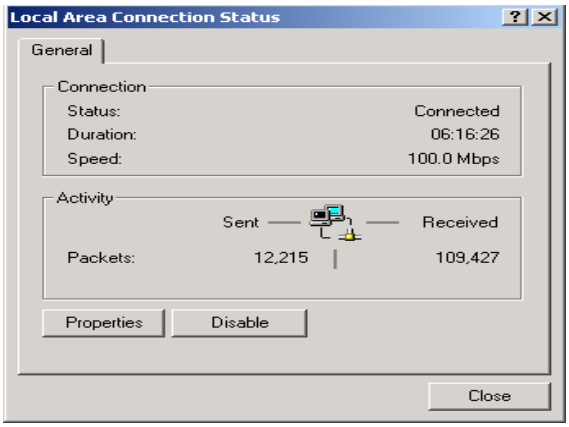

Internet Protocol (TCP/IP) Properties
General Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK Cancel

Configuring PC in Windows 2000

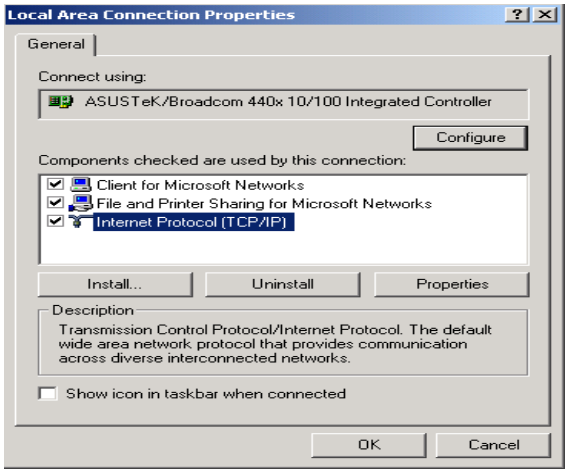
1. Go to **Start / Settings / Control Panel**. In the Control Panel, double-click on **Network and Dial-up Connections**.
2. Double-click **Local Area Connection**.



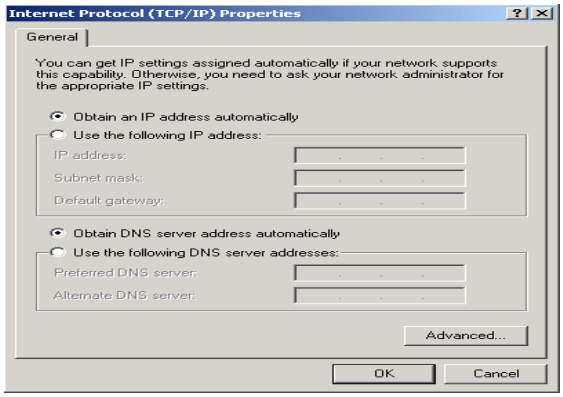
3. In the **Local Area Connection Status** window click **Properties**.



4. Select **Internet Protocol (TCP/IP)** and click **Properties**.

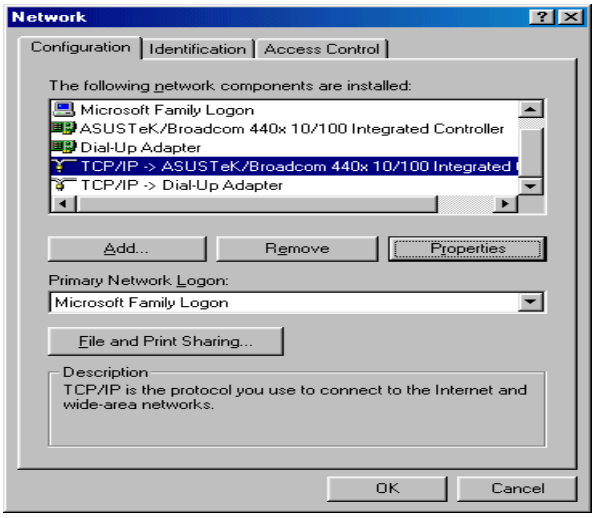


5. Select the **Obtain an IP address automatically** and the **Obtain DNS server address automatically** radio buttons.
6. Click **OK** to finish the configuration.

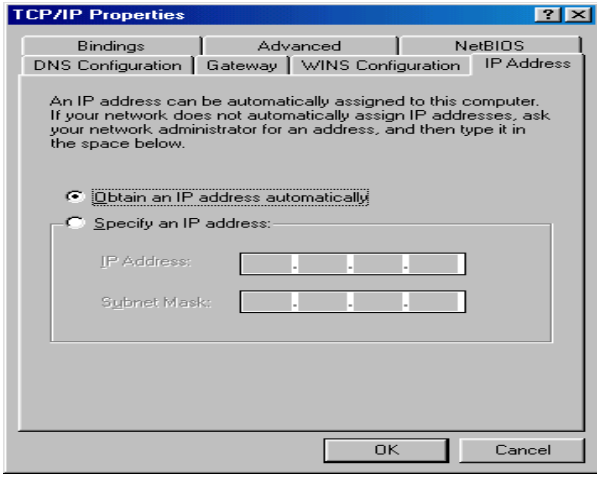

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Configuring PC in Windows 98/Me

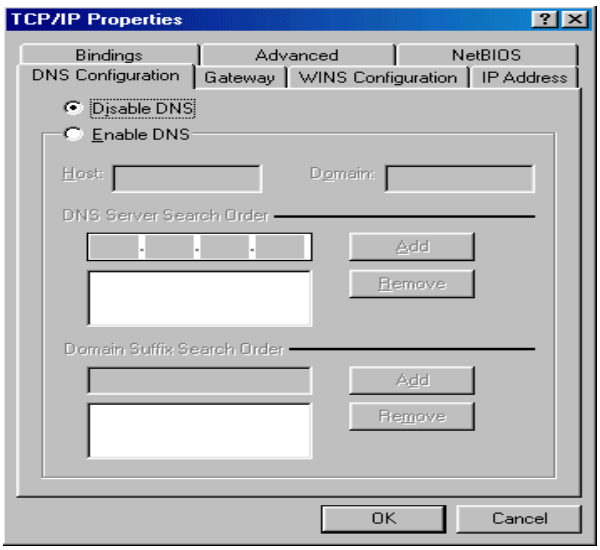
1. Go to **Start / Settings / Control Panel**. In the Control Panel, double-click on **Network** and choose the **Configuration** tab.
2. Select **TCP/IP -> NE2000 Compatible**, or the name of your Network Interface Card (NIC) in your PC.



3. Select the **Obtain an IP address automatically** radio button.

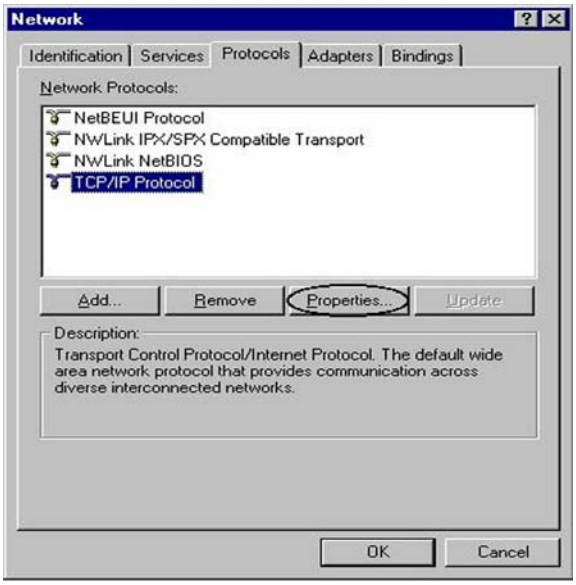

TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
Subnet Mask:
OK
Cancel

4. Then select the **DNS Configuration** tab.
5. Select the **Disable DNS** radio button and click **OK** to finish the configuration.

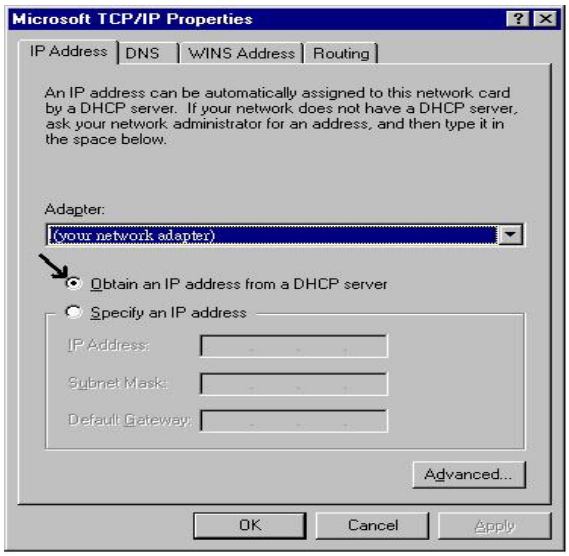


Configuring PC in Windows NT4.0

1. Go to **Start / Settings / Control Panel**. In the Control Panel, double-click on **Network** and choose the **Protocols** tab.
2. Select **TCP/IP Protocol** and click **Properties**.



3. Select the **Obtain an IP address from a DHCP server** radio button and click **OK**.

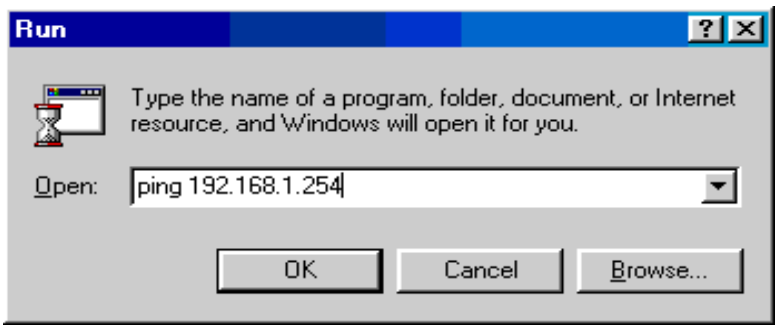

Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
(your network adapter)
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:
Advanced...
OK
Cancel
Apply

Configuring Your ADSL Router

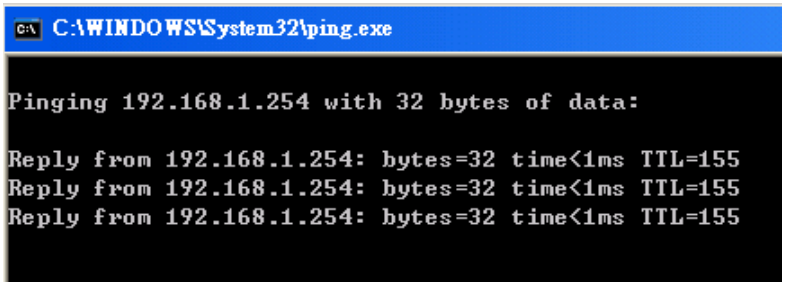
To configure this device, you must have IE 5.0 / Netscape 4.5 or above installed

Verifying Your Local Network Connection with the Device

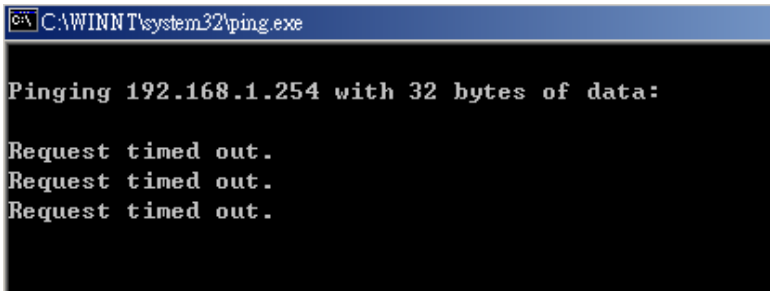
To see if this ADSL Router is visible on the local network, go to **Start** / **Run**. In the Run dialog box, type **"ping 192.168.1.254"** then press **OK**.



A command prompt window will pop out. If your ping is successful which means your local network is able to reach to the device, then the command prompt window will close up automatically.

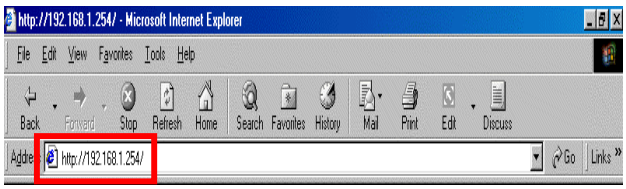

C:\WINDOWS\System32\ping.exe
Pinging 192.168.1.254 with 32 bytes of data:
Reply from 192.168.1.254: bytes=32 time<1ms TTL=155
Reply from 192.168.1.254: bytes=32 time<1ms TTL=155
Reply from 192.168.1.254: bytes=32 time<1ms TTL=155

Connection fails, when you see "**Request timed out"** in the command prompt window. You may need to check your set up.

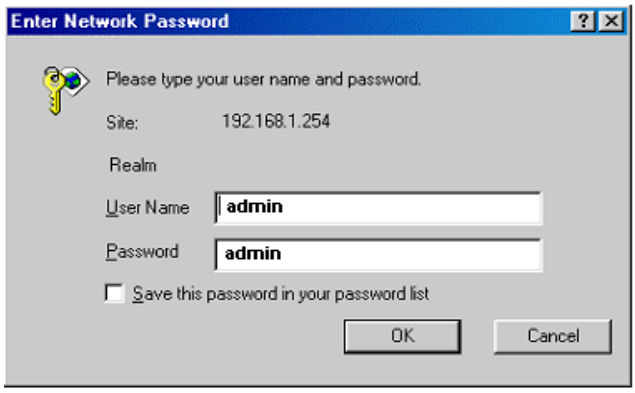


Connecting to the Router

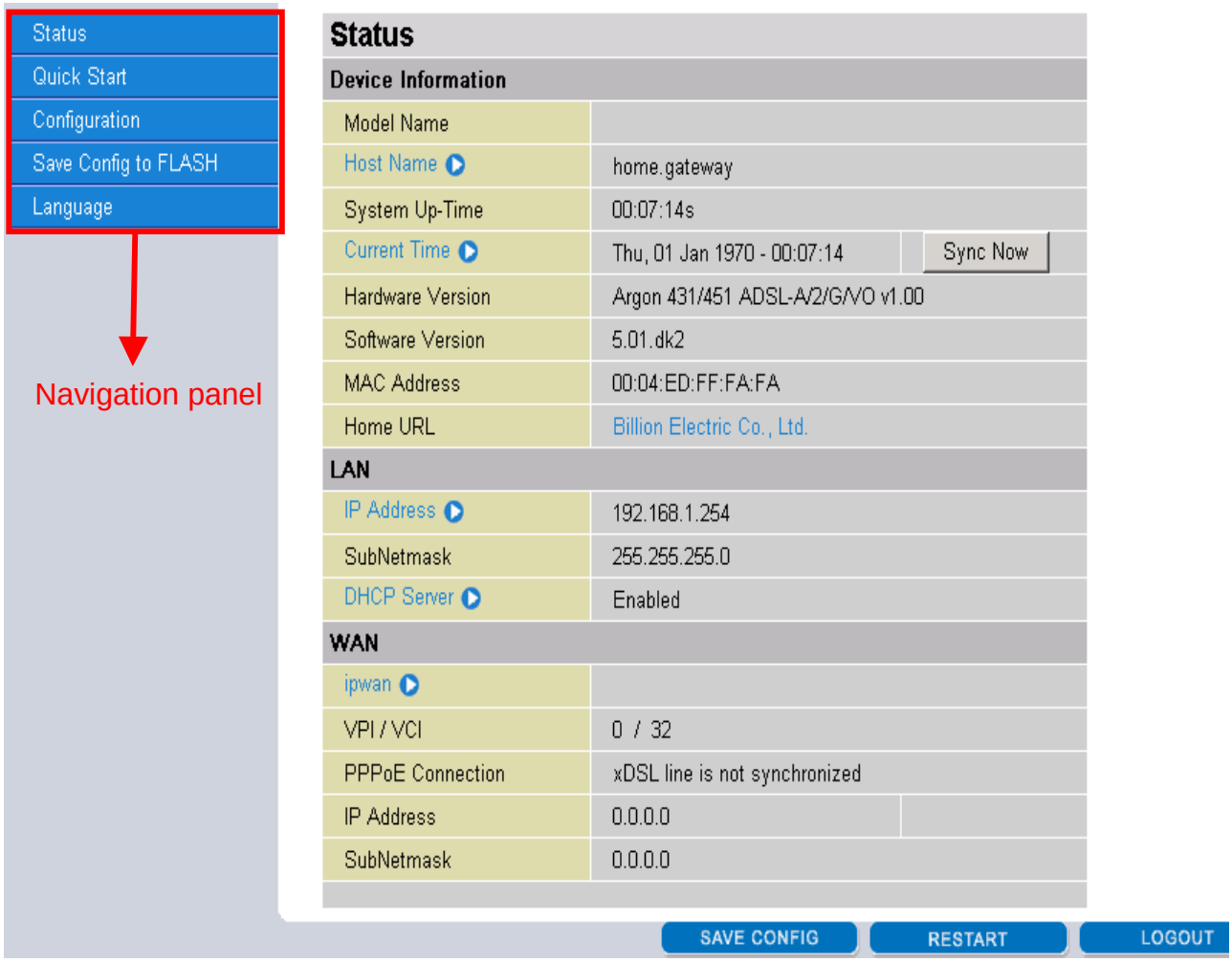
1. Open the web browser and type http://192.168.1.254 in the browser's address box. This number is the default IP address for this router. Press **Enter**.


http://192.168.1.254/ - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://192.168.1.254/
Go Links

2. A username and password window will appear. **The default username and password are admin and admin.** Press **OK** to proceed.



3. You will get a status report web page and main menu screen.



At the main menu screen, the left navigation panel where bookmarks are provided links you directly to the desired setup page, including:

- **Status** (ARP Table, Wireless Association, Routing Table, DHCP Table, Email Status, VoIP Status, Event Log, Error Log, NAT Sessions and UPnP Portmap)
- **Quick Start**
- **Configuration** (LAN, WAN, System, Firewall, VoIP, QoS, Virtual Server, Time Schedule and Advanced)
- **Save Config to FLASH**
- **Language** (provides user interface in English and French languages).

Please see the relevant sections of on-line manual for detailed instructions on how to configure your router.

Product Support and Contact Information

Most problems can be solved by referring to the **Troubleshooting** section in the User's Manual. If you cannot resolve the problem with the **Troubleshooting** chapter, please contact the dealer where you purchased this product.

Contact Billion

AUSTRALIA

http://www.billion.com.au

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WORLDWIDE

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